01/01/08

NMFS FISHERIES OBSERVER PROGRAM

CATCH ESTIMATION WORKSHEET

OBS/TRIP ID	
DATE LANDED mm/yy	/
HAUL #	

FISHING METHOD		CATCH ESTIMATION METHOD	
Picked	1	Weighed (Actual)	1
Shoveled	2	Volume to Volume	2
Deckloaded	3	Basket or Tote Count	3
Conveyor System	4	Captain	4
Combination (comment)	8	Tally	5
Other (comment)	9	Visually Estimated	6
_____		Cumulative Sum Method	7
HAUL NUMBERS WHERE		Combination (comment)	8
DECKLOADING OCCURRED		Other (comment)	9
_____		_____	

** CATCH SHAPE, MEASUREMENTS & VOLUME

Comment and draw catch shape.

Rect./square (L x W x D)	1	L		W_1			D		= V	ft^3
Trapezoidal ([(W_1 + W_2)]/2xLxD)	2	L		W_1		W_2	D		= V	ft^3
Triangular (L x W / 2 x D)	3	L		W			D		= V	ft^3
Circular (π r^2 x D)	4	r					D		= V	ft^3
Oval (r_1 x r_2 x π x D)	5	r_1		r_2			D		= V	ft^3
Other/Combination (comment)	9									

Are measurements the same as previous haul? NO 0 ___ YES 1 ___

** # SUBSAMPLING CONTAINERS USED	** VOL SUBSAMPLE CONTAINER	** TOTAL SUBSAMPLE VOLUME =	** SAMPLE WEIGHT MULTIPLIER	** PERCENT SUBSAMPLED
	Orange Basket 1 ___ 1.47 ft^3	# subsample containers used x	total catch vol / total subsamp vol	(total subsamp vol / total catch)
	Fish Tote 2 ___ 2.65 ft^3	volume of a subsample container		vol) x 100
	Other 9 ___ ft^3			
_____	_____	_____ ft^3	_____	_____ %

** SPECIES	** SUBSAMP WGT (lbs)	** SPECIES	** SUBSAMP WGT (lbs)

COMMENTS

** Required only when using the volume to volume method.

Volume of Subsample

1 Basket = 1.47 ft^3
2 Baskets = 2.94 ft^3
3 Baskets = 4.41 ft^3
4 Baskets = 5.88 ft^3
5 Baskets = 7.35 ft^3

Angular Shapes

A = area
V = volume
W = width
D = catch depth

Circular Shapes

r = radius
r = diameter / 2
r_1 = short radius
r_2 = long radius
π = 3.14

Trapezoidal Shapes

W_1 = short width
W_2 = long width